

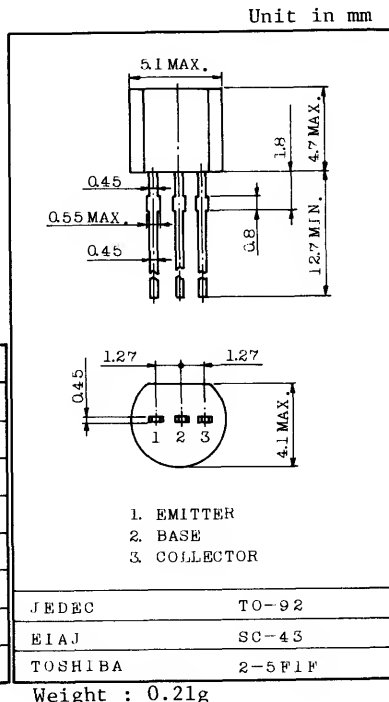
AUDIO FREQUENCY GENERAL PURPOSE AMPLIFIER APPLICATIONS.
DRIVER STAGE AMPLIFIER APPLICATIONS.

FEATURES:

- High Voltage and High Current
: $V_{CE0} = -50V(\text{Min.})$, $I_C = -150mA(\text{Max.})$
- Low Noise : $NF = 0.7dB(\text{Typ.})$ at $f = 1kHz$
- Complementary to TEC9014

MAXIMUM RATINGS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-50	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-150	mA
Base Current	I_B	-50	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$

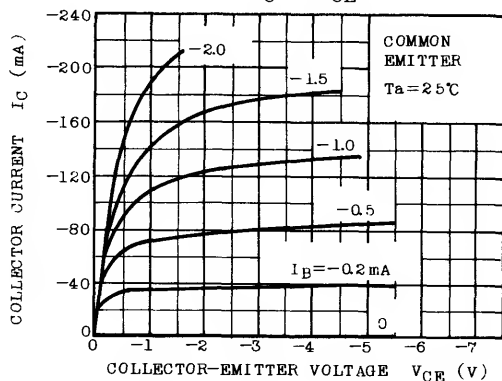
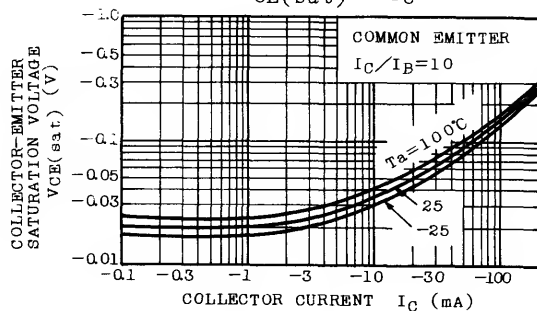
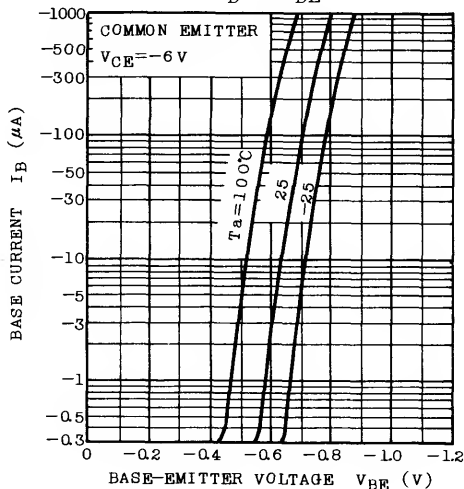
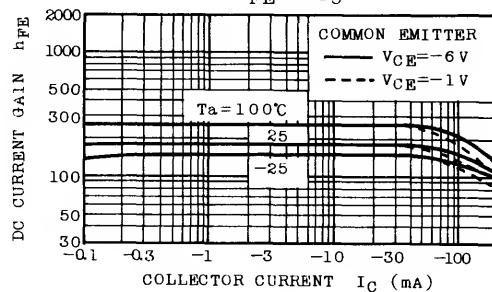
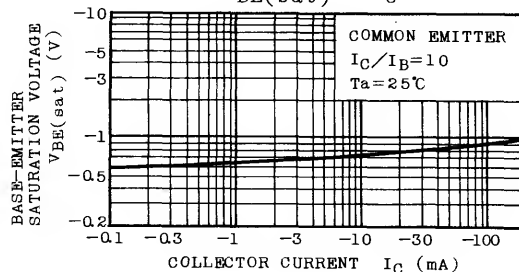
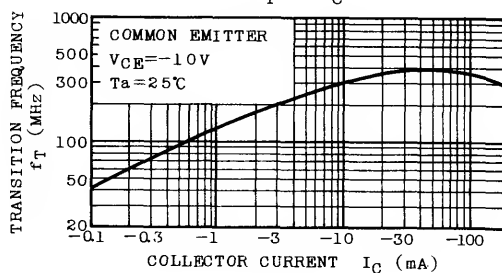


Weight : 0.21g

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -50V$, $I_E = 0$	-	-	-50	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V$, $I_C = 0$	-	-	-0.1	μA
DC Current Gain	h_{FE} (Note)	$V_{CE} = -5V$, $I_C = -1mA$	60	-	600	-
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -1mA$, $I_B = 0$	-50	-	-	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -100mA$, $I_B = -10mA$	-	-0.1	-0.3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -100mA$, $I_B = -10mA$	-	-	-1.1	V
Transition Frequency	f_T	$V_{CE} = -5V$, $I_E = 10mA$	100	-	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V$, $I_E = 0$, $f = 1MHz$	-	4	7	pF
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5V$, $I_C = -2mA$	-0.60	-0.65	-0.75	V
Noise Figure	NF	$V_{CE} = -5V$, $I_C = -0.2mA$ $R_g = 2k\Omega$, $f = 1kHz$	-	0.7	10	dB

Note : h_{FE} Classification A : 60 ~ 150, B : 100 ~ 300, C : 200 ~ 600

$I_C - V_{CE}$  $V_{CE}(\text{sat}) - I_C$  $I_B - V_{BE}$  $h_{FE} - I_C$  $V_{BE}(\text{sat}) - I_C$  $f_T - I_C$  $P_C - T_a$ 